

REMARKS/ARGUMENTS

This case has been reviewed and analyzed in view of the Official Action dated 24 June 2004. Responsive to the rejections made by the Examiner in the outstanding Official Action, Claim 1 has now been amended and Claims 2-6 have been canceled from this case.

The Examiner has objected to numerous examples of informalities in Claims 1-6. Claim 1 has now been amended to overcome the Examiner's specific citations of informalities and Claims 2-6 have now been canceled from this case.

Prior to a discussion of the Examiner's further outstanding objections and rejections made in the Official Action, it is believed that it may be beneficial to briefly review the subject Patent Application system in light of the inventive concept of the Applicant. The subject Patent Application system is directed to an improved structure of a cable. As shown in Fig. 1 of the subject Patent Application Drawings, the cable includes a conductor 11 surrounded by an insulation layer 12, which has an enhanced shield layer 13 formed around it. A metal braid layer 14 is formed about the enhanced shield layer 13 and the entire cable is encased within an outer jacket 15. The enhanced shield layer 13 is formed of a plastic material impregnated with a conductive material, which may be conductive carbon black, conductive colorant, conductive metal fiber, conductive metal particles, or conductive metal powder.

The Examiner has rejected Claims 1-3 under 35 U.S.C. § 102(b) as being anticipated by the Ferlier Patent #5,397,855. It is the Examiner's contention that all elements of Claims 1-3, as originally filed, are taught by the Ferlier reference.

The Ferlier reference is directed to a low noise cable. The cable includes a conductive core 1, a dielectric 2 surrounding the core, a peelable conductive coating layer 3 covering the dielectric, and a high conductivity metal screen 4 surrounding the conductive coating. The conductive coating layer is a silicone coating based on a polysiloxane type of polymer and filled with fine particles of carbon black.

The Ferlier reference utilizes the silicone coating having carbon black and does not teach or suggest the use of any other sort of shielding conductive layer. In contradistinction, the system of the subject Patent Application utilizes an enhanced shield layer purely formed of conductive carbon black. Though the Ferlier reference does teach the use of carbon black, the conductive coating layer merely contains particulate carbon black suspended in a silicone coating. The Ferlier reference does not teach or suggest the use of a shield layer purely formed of conductive carbon black.

The shield layer 13 of the subject Patent Application system utilizes the conductive plastic material in order to prevent bending/metal fatigue found in prior art systems, and also increase the service life of the cable.

Thus, the Ferlier reference does not provide for: "...said enhanced shield layer being purely formed of conductive carbon black...", as is clearly provided by newly-amended Independent Claim 1.

Thus, based upon newly-amended Independent Claim 1, it is not believed that the subject Application is anticipated by, or made obvious by, the Ferlier reference when Independent Claim 1 is carefully reviewed.

The Examiner has additionally rejected Claims 1, 4, and 6 under 35 U.S.C. § 102(b) as being anticipated by the Roberts Patent #3,643,007. It is the Examiner's contention that the Roberts reference teaches all elements of Claims 1, 4, and 6, as originally filed.

The Roberts reference is directed to a coaxial cable. As shown in Fig. 1, the cable 1 includes a central conductor 6 with a dielectric core 2. Disposed on the outer surface of the dielectric 2, there is a first outer conductor 3. As shown in Fig. 1, this first outer conductor is a metal foil wrapped in a longitudinal fashion. The foil is a metal in sheet form possessing a thickness of less than 0.006 inches. Disposed on the outer surface of the longitudinally wrapped foil 3, there is a tube-like member made up of woven strips of copper-clad steel braid 4.

The Roberts reference teaches a shielding layer 3 formed purely of a metallic foil. In contradistinction, the system of the subject Patent Application utilizes a shielding layer formed of pure conductive carbon black.

Standard foil shielding, which is well-known in the art, has several drawbacks including bending/metal fatigue/shortened service life and site migration unsuitability, all coupled with the metal foils being incapable of providing 100% isolation.

The conductive carbon black layer utilized by the subject Patent Application system overcomes these drawbacks in the standard prior art metal foil and, further, provides for greater flexibility and eliminates noise caused by wire friction.

Thus, the Roberts reference does not provide for: "...said enhanced shield layer being purely formed of conductive carbon black...", as is clearly provided by newly-amended Independent Claim 1.

Thus, based upon newly-amended Independent Claim 1, it is not believed that the subject Patent Application is anticipated by, or made obvious by, the Roberts reference when Independent Claim 1 is carefully reviewed.

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Application Serial No. 10/619,410

Responsive to Office Action dated 24 June 2004

The Examiner has additionally rejected Claim 5 under 35 U.S.C. § 103(a) as being unpatentable over the Roberts reference in view of the Curtiss Patent #5,286,922.

It is respectfully submitted that Claim 5 has now been canceled from this case.

The remaining references cited by the Examiner, but not used in the rejection, have been reviewed, but are believed to be further removed when patentable distinctions are taken into account than those cited by the Examiner in the rejection.

It is now believed that the subject Patent Application has been placed in condition for allowance, and such action is respectfully requested.

Respectfully submitted,



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